

Precise Positioning Service (PPS) Receiver Application Module-Standard Electronic Module (GRAM-S/M), is a self-contained navigation system that provides acceleration, velocity, position, attitude, platform azimuth, magnetic and true heading, altitude, body angular rates, time tags, and co-ordinated universal time (UTC) synchronized time. The embedded GRAM-S/M enables access to both the encrypted P(Y) and M-Code signals, providing protection against active spoofing attacks, enhanced military exclusivity, integrity, and anti-jam.

3. The AN/ALQ-251 radio frequency countermeasure (RFCM) system provides superior situational awareness and protection against electronic warfare systems and radar-guided weapons systems in contested and congested electromagnetic spectrum environments.

4. The AN/AAQ-24(V)N LAIRCM system is a self-contained, directed-energy countermeasures system designed to protect aircraft from infrared-guided surface-to-air missiles. The LAIRCM system features digital technology micro-miniature solid-state electronics. The system operates in all conditions, detecting incoming missiles and jamming infrared-seeker equipped missiles with aimed bursts of laser energy. The LAIRCM system consists of multiple Missile Warning Sensors, the Guardian Laser Transmitter Assembly (GLTA), a System Processor Replacement (LSPR), a Control Interface Unit Replacement (CIUR), and a Classified Memory Card User Data Module (UDM).

a. The LAIRCM Missile Warning Sensors detect and declare threat missiles. The sensors are mounted on the aircraft exterior to provide omni-directional protection. The sensors detect the rocket plume of missiles and send appropriate data signals to the System Processor Replacement (LSPR) for processing.

b. The Guardian Laser Transmitter Assembly (GLTA) is a laser transmitter pointer/tracker subsystem designed to track the inbound threat missile and point the laser jam source at the missile's seeker. The GLTA automatically deploys the countermeasure.

c. The LSPR analyzes the data from each Missile Warning Sensor and automatically deploys the appropriate countermeasure via the GLTA. The LSPR contains Built-in-Test (BIT) circuitry.

d. The Control Interface Unit Replacement (CIUR) displays the incoming threat for the pilot to take appropriate action. The CIUR also provides operator interface to program the LAIRCM system to initiate built-in-test (BIT), to display system status, and to provide the crew with bearing to threat missile launch.

e. The UDM card contains the laser jam codes. It is loaded into the LSPR prior to flight; when not in use, the Classified Memory Card User Data Module is removed from the LSPR and put in secure storage.

5. The Multifunctional Information Distribution System (MIDS) with Joint Tactical Radio System (JTRS) is an advanced Link-16 command, control, communications, and intelligence (C3I) system incorporating high-capacity, jam-resistant, digital communication links for exchange of near real-time tactical information, including both data and voice, among air, ground, and sea elements.

6. The KYV-5M Communication Security Module enables secure voice for the ANDVT.

7. The AN/ARC-190 is a solid-state, high-frequency (HF) transceiver that provides beyond-line-of-sight communications capability for various military airborne applications.

8. The AN/ARC-210 is a voice communications radio system equipped with HAVE QUICK II, which employs cryptographic technology. Other waveforms may be included as needed.

9. The AN/ARN-153 is an airborne receiver-transmitter component of the Tactical Airborne Navigation (TACAN) avionics system.

10. AN/ARN-147 receivers combine all VHF Omni Ranging/Instrument Landing System (VOR/ILS) functions into one compact, lightweight set.

11. The AN/ARN-149(V) low-frequency, automatic direction finding system provides automatic pointing to low-frequency and medium-frequency non-directional beacons (NDB), standard broadcast stations, and emergency stations on frequencies of 500 and 2182 kHz. An aural output provides station identification, weather reporting, and AM broadcast audio.

12. The AN/APX-119 is an Identification Friend or Foe (IFF) transponder that provides military aircraft with a secure combat identification capability to help reduce fratricide and enhance battlespace awareness, while providing safe access to civilian airspace.

13. The AN/AAR-47A(V)2 Missile Warning System is a small, lightweight, passive, electro-optic, threat warning device used to detect surface-to-air missiles fired at helicopters and low-flying, fixed-wing aircraft and automatically provide countermeasures, as well as audio and visual-sector warning messages to the aircrew.

14. The AN/APN-241 is a Low-Power Color Radar (LPCR) are radars in the transport class with a high resolution SAR mapping mode. In addition to meeting needs for precision navigation, this radar enables operators to execute landing missions on unimproved runways without aid from ground-based landing systems.

15. The AN/ALE-47 countermeasures dispensing system (CMDS) is an integrated, threat-adaptive, software programmable dispensing system capable of dispensing chaff, flares, and active radio frequency expendables. The AN/ALE-47 uses data received over the aircraft interfaces to assess the threat situation and to determine a response.

16. The AN/ALR-56 is a computer-controlled, advanced radar warning receiver (RWR) designed to provide improved aircrew situational awareness of the radar guided threat environment through improved performance in a dense signal environment and improved detection of modern threats signals.

17. The AN/PYQ-10 Simple Key Loader is a handheld device used for securely receiving, storing, and transferring data between compatible cryptographic and communications equipment.

18. The MX-20HD is a gyro-stabilized, multi-spectral, multi-field-of-view (FOV) Electro-Optical/Infrared (EO/IR) targeting system. The system provides surveillance laser illumination and laser designation through use of an externally mounted turret sensor unit and internally mounted master control. Sensor video imagery is displayed in the aircraft real time and may be recorded for subsequent ground analysis.

19. The KIV-77 is a cryptographic applique for IFF. It can be loaded with Mode 5 classified elements.

20. The highest level of classification of defense articles, components, and services included in this potential sale is SECRET.

21. If a technologically advanced adversary were to obtain knowledge of the specific hardware and software elements, the information could be used to develop countermeasures that might reduce weapon system effectiveness or be used in the development of a system with similar or advanced capabilities.

22. A determination has been made that Australia can provide substantially the same degree of protection for the sensitive tech-

nology being released as the U.S. Government. This sale is necessary in furtherance of the U.S. foreign policy and national security objectives outlined in the Policy Justification.

23. All defense articles and services listed in this transmittal have been authorized for release and export to Australia.

ARMS SALES NOTIFICATION

Mr. MENENDEZ. Mr. President, section 36(b) of the Arms Export Control Act requires that Congress receive prior notification of certain proposed arms sales as defined by that statute. Upon such notification, the Congress has 30 calendar days during which the sale may be reviewed. The provision stipulates that, in the Senate, the notification of proposed sales shall be sent to the chairman of the Senate Foreign Relations Committee.

In keeping with the committee's intention to see that relevant information is available to the full Senate, I ask unanimous consent to have printed in the RECORD the notifications which have been received. If the cover letter references a classified annex, then such annex is available to all Senators in the office of the Foreign Relations Committee, room SD-423.

There being no objection, the material was ordered to be printed in the RECORD, as follows:

Hon. ROBERT MENENDEZ,
Chairman, Committee on Foreign Relations,
U.S. Senate, Washington, DC.

DEAR MR. CHAIRMAN, Pursuant to the reporting of Section 26(b)(1) of the Arms Export Control Act, as amended, we are forwarding herewith Transmittal No. 22-63, concerning the Air Force's proposed Letter(s) of Offer and Acceptance to the Government of Belgium for defense articles and services estimated to cost \$380 million. After this letter is delivered to your office, we plan to issue a news release to notify the public of this proposed sale.

Sincerely,

JAMES. H. HURSCH,
Director.

Enclosures.

TRANSMITTAL NO. 22-63

Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act, as amended

(i) Prospective Purchaser: Government of Belgium.

(ii) Total Estimated Value:

Major Defense Equipment * \$358 million.

Other \$22 million.

Total \$380 million.

(iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase:

Major Defense Equipment (MDE):

Up to one hundred twenty (120) AIM-120C-8 Advanced Medium Range Air-to-Air Missiles (AMRAAM).

Ten (10) AMRAAM C-8 Guidance Sections. Non-MDE: Also included are spare AIM-120 control sections and containers; AIM-120C Captive Air Training Missiles (CATM); other spare parts, consumables, accessories, and repair/return support; classified software; books, technical documentation, and other publications; training and training equipment; munitions support and support equipment; and other related elements of logistical and program support.

(iv) Military Department: Air Force (BED-YCG).

(v) Prior Related Cases, if any: N/A.

(vi) Sales Commission, Fee, etc., Paid, Offered, or Agreed to be Paid: None known at this time.

(vii) Sensitivity of Technology Contained in the Defense Article or Defense Services Proposed to be Sold: See Attached Annex.

(viii) Date Report Delivered to Congress: November 8, 2022.

*As defined in Section 47(6) of the Arms Export Control Act.

POLICY JUSTIFICATION

Belgium—Advanced Medium Range Air-to-Air Missiles for F-16 and F-35 Programs

The Government of Belgium has requested to buy up to one hundred twenty (120) AIM-120C-8 Advanced Medium Range Air-to-Air Missiles (AMRAAM); and ten (10) AMRAAM C-8 Guidance Sections. Also included are spare AIM-120 control sections and containers; AIM-120C Captive Air Training Missiles (CATM); other spare parts, consumables, accessories, and repair/return support; classified software; books, technical documentation, and other publications; training and training equipment; munitions support and support equipment; and other related elements of logistical and program support. The estimated total cost is \$380 million.

This proposed sale will support the foreign policy and national security objectives of the United States by improving the security of a NATO Ally which is an important force for political stability and economic progress in Europe.

The proposed sale will improve Belgium's capability to meet current and future threats by maintaining its F-16 and F-35 fleets in combat-ready status and providing a credible deterrent to regional threats. Belgium will have no difficulty absorbing these articles and services into its armed forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

The principal contractor will be Raytheon Missile Systems, Tucson, AZ. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will not require the assignment of any additional U.S. Government or contractor representatives to Belgium.

There will be no adverse impact on U.S. defense readiness as a result of this proposed sale.

TRANSMITTAL NO. 22-63

Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act

Annex Item No. vii

(vii) Sensitivity of Technology:

1. The AIM-120C-8 Advanced Medium Range Air-to-Air Missile (AMRAAM) is a supersonic, air launched, aerial intercept, guided missile featuring digital technology and micro-miniature solid-state electronics. AMRAAM capabilities include look-down/shoot-down, multiple launches against multiple targets, resistance to electronic countermeasures, and interception of high- and low-flying and maneuvering targets. This potential sale will include Captive Air Training Missiles (CATM) as well as AMRAAM guidance section and control section spares.

2. The highest level of classification of defense articles, components, and services included in this potential sale is SECRET.

3. If a technologically advanced adversary were to obtain knowledge of the specific hardware and software elements, the information could be used to develop countermeasures that might reduce weapon system effectiveness or be used in the development of a system with similar or advanced capabilities.

4. A determination has been made that Belgium can provide substantially the same degree of protection for the sensitive technology being released as the U.S. Government. This sale is necessary in furtherance of the U.S. foreign policy and national security objectives outlined in the Policy Justification.

5. All defense articles and services listed in this transmittal have been authorized for release and export to Belgium.

ARMS SALES NOTIFICATION

Mr. MENENDEZ. Mr. President, section 36(b) of the Arms Export Control Act requires that Congress receive prior notification of certain proposed arms sales as defined by that statute. Upon such notification, the Congress has 30 calendar days during which the sale may be reviewed. The provision stipulates that, in the Senate, the notification of proposed sales shall be sent to the chairman of the Senate Foreign Relations Committee.

In keeping with the committee's intention to see that relevant information is available to the full Senate, I ask unanimous consent to have printed in the RECORD the notifications which have been received. If the cover letter references a classified annex, then such annex is available to all Senators in the office of the Foreign Relations Committee, room SD-423.

There being no objection, the material was ordered to be printed in the RECORD as follows:

DEFENSE SECURITY
COOPERATION AGENCY,
Washington, DC.

Hon. ROBERT MENENDEZ,
Chairman, Committee on Foreign Relations,
U.S. Senate,
Washington, DC.

DEAR MR. CHAIRMAN: Pursuant to the reporting requirements of Section 36(b)(5)(A) of the Arms Export Control Act (AECA), as amended, we are forwarding Transmittal No. 0P-22. This notification relates to enhancements or upgrades from the level of sensitivity of technology or capability described in the Section 36(b)(1) AECA certification 20-42 of June 15, 2020.

Sincerely,

JAMES A. HURSCH,
Director.

Enclosures.

TRANSMITTAL NO. 0P-22

Report of Enhancement or Upgrade of Sensitivity of Technology or Capability (Sec. 36(b)(5)(A), AECA)

(i) Purchaser: Government of Canada.

(ii) Sec. 36(b)(1), AECA Transmittal No.: 20-42; Date: June 15, 2020; Military Department: Navy.

(iii) Description: On June 15, 2020, Congress was notified by Congressional certification transmittal number 20-42, of the possible sale under Section 36(b)(1) of the Arms Export Control Act of fifty (50) Sidewinder AIM-9X Block II Tactical missiles; fifty (50) Sidewinder AIM-9X Block II Captive Air Training Missiles (CATMs); ten (10) Sidewinder AIM-9X Block II Special Air Training Missiles (NATMs); ten (10) Sidewinder AIM-9X Block II Tactical Guidance Units; ten (10) Sidewinder AIM-9X Block II CATM Guidance Units; thirty-eight (38) APG-79(V)4 Active Electronically Scanned Array (AESA) radar units; thirty-eight (38) APG-79(V)4 AESA Radar A1 kits; twenty (20) Joint Standoff

Weapon (JSOW) C, AGM-154C; forty-six (46) F/A-18A Wide Band RADOMes. Also included were additional technical and logistics support for the AESA radar; upgrades to the Advanced Distributed Combat Training System (ADCTS) to ensure flight trainers remain current with the new technologies; software development to integrate the systems listed into the F/A-18A airframe and install Automated Ground Collision Avoidance System (Auto GCAS); thirty (30) Bomb Release Unit (BRU)—42 Triple Ejector Racks (TER); thirty (30) Improved Tactical Air Launched Decoy (ITALD); one hundred four (104) Data Transfer Device/Data Transfer Units (DTD/DTU); twelve (12) Joint Mission Planning System (JMPS); one hundred twelve (112) AN/ARC-210 RT-2036 (Gen 6) radios and F/A-18 integration equipment; support equipment; tools and test equipment; technical data and publications; U.S. Government and contractor engineering, technical, and logistics support services; and other related elements of logistical and program support. The estimated total cost was \$862.3 million. Major Defense Equipment (MDE) constituted \$204.5 million of this total.

This transmittal reports a value increase due to current cost increases involved with the software development for the Hornet Extension Project but does not require additional MDE. The cost increase supports technically challenging and first of its kind development software necessary to integrate systems into the Royal Canadian Air Force (RCAF) F/A-18 aircraft. The estimated total MDE value will remain \$204.5 million. The non-MDE value will increase by \$80 million, resulting in a new estimated total case value of \$942.3 million.

(iv) Significance: This notification is being provided as the pricing for the original notification was outdated and requires an increase.

(v) Justification: This proposed sale will support the foreign policy and national security objectives of the United States by helping to improve the military capability of Canada, a NATO ally that is an important force for ensuring political stability and economic progress, and a contributor to military, peacekeeping and humanitarian operations around the world.

(vi) Sensitivity of Technology: The Sensitivity of Technology Statement contained in the original notification applies to items reported here.

(vii) Date Report Delivered to Congress: October 19, 2022.

ARMS SALES NOTIFICATION

Mr. MENENDEZ. Mr. President, section 36(b) of the Arms Export Control Act requires that Congress receive prior notification of certain proposed arms sales as defined by that statute. Upon such notification, the Congress has 30 calendar days during which the sale may be reviewed. The provision stipulates that, in the Senate, the notification of proposed sales shall be sent to the chairman of the Senate Foreign Relations Committee.

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